



Rocky Mountain
Remediation Services, L.L.C.
... protecting the environment

Rocky Flats Environmental Technology Site
P.O. Box 464
Golden, Colorado 80402-0464
Phone (303) 966-7000

CORRES. CONTROL
OUTGONG LTR NO.

DOE ORDER #

98 RF 04705

DIST. LTR ENC

Bengal, P.		
Benson, C. A.		
Burdell, W. J.		
Crawford, A. C.		
Cypher, N. P.	X	X
Dunstan, L. A.	X	X
Findley, M.		
Guinn, L.		
Hopkins, J. K.		
Huffman, F. M.		
Hughes, F. P.		
Jenkins, K.		
Konwinski, G.		
Law, J. E.	X	X
Motyl, K. M.	X	X
Primrose, A. L.		
Rukavina, F.		
Steffen, D. E.		
Wheeler, M.		

September 17, 1998

98-RF-04705

Robert C. Nininger
Deputy Manager, Environmental Management & Compliance
Kaiser-Hill Company, L.L.C.
Building T130C

TRANSMITTAL OF DISSOLVED CADMIUM DATA TO DOE - NPC-032-98

Action: Transmit to DOE

Attached please find a draft letter with attachment (Attachment 1) to Colorado Department of Public Health and Environment (CDPHE) responding to a request for information about dissolved cadmium results measured at GS01 and GS03 during May 1998. Requested data include pond discharge information at the time samples were collected, Site precipitation data during May 1998, and flow data from GS33, GS34, and GS35. For your convenience, also included is a draft letter (Attachment 2) transmitting this information to DOE.

If you have any questions or desire additional information on this matter, please contact K. M. Motyl at extension 2172.

Norman P. Cypher
Manager, Water Management and Treatment

LAD:slm

Attachments:
As Stated

CC:
J. A. Hill
G. H. Setlock.

ATS (T130G)

RMRS CC (116) X

CORRES. CONTROL X

TRAFFIC

CLASSIFICATION

JCNI

UNCLASSIFIED X

CONFIDENTIAL

SECRET

AUTHORIZED CLASSIFIER
SIGNATURE

DOCUMENT CLASSIFICATION

REVIEW WAIVER PER

Exemption # CEX-010-98

DATE

IN REPLY TO RFP CC NO:

ACTION ITEM STATUS

☐ OPEN ☐ CLOSED

☐ PARTIAL

LTR APPROVALS:

ORIG & TYPIST INITIALS:



ADMIN RECD
SW-A-002711

DRAFT

Colorado Department of Public Health and Environment
4300 Cherry Creek Dr. So.
Denver, Colorado 80222-1530

Attn: S. Gunderson

In response to your letter dated September 2, 1998, the Site is providing the following information: a summary of any terminal pond discharges that may have been occurring during the time samples for dissolved cadmium were collected; a summary of precipitation data for the month of May 1998; and summaries of flow at GS33, GS34, and GS35. The information presented is grouped together based on sampling location. All the analytical data reviewed below was published in the most recent Site Quarterly Environmental Monitoring Report, presented in late August 1998.

For the dissolved cadmium sample collected by your staff at GS03, Walnut Creek and Indiana Street, on May 7, 1998, there were no discharges occurring from either Ponds A-4 or B-5. The Site has reviewed metals data for the upstream Points of Evaluation (POE), located above or west of GS03, where dissolved cadmium is an Analyte of Interest (AOI) per the current Integrated Monitoring Plan (IMP). The POE's located on North and South Walnut Creek are SW093 and GS10 respectively, and dissolved cadmium data for the period March 1998 through July 1998 were reviewed. At SW093 dissolved cadmium data ranged from a minimum of less than the detection level to a maximum of 1.4 ug/l. Dissolved cadmium data at GS10 ranged from a minimum of less than the detection level to a maximum of 0.62 ug/l. Detection levels for dissolved cadmium vary with the individual subcontracted labs performing the analysis, but are normally in the range of 0.1 ug/l to 0.5 ug/l. Attached are hydrographs from GS33, GS34 and GS35 (Attachments 1, 2, and 3) which include May 7, 1998, the date the CDPHE dissolved cadmium sample was collected. Also attached are precipitation data from GS03 for the month of May 1998 (Attachment 5).

At the time the dissolved cadmium sample was collected by CDPHE at GS01, Woman Creek and Indiana Street, May 26, 1998, the Site was pump-discharging Pond C-2 to Woman Creek. Pond C-2 was sampled by CDPHE on May 5, 1998 for all the routine pre-discharge parameters, including dissolved cadmium, which was measured at 0.37 ug/l. This is below the 1.5 ug/l standard for dissolved cadmium. Pond C-2 discharge began on May 21, 1998 and ended on May 30, 1998 and was continuously flow-paced sampled at both GS31 and GS01. As dissolved cadmium is not an AOI at either GS31 or GS01, the Site has no dissolved cadmium data measured at these locations during the Pond C-2 discharge. Dissolved cadmium data for the upstream POE located at SW027, upstream or west of GS01, were reviewed for the period March 1998 through May 1998. At SW027 dissolved cadmium data ranged from a minimum of less than the detection level to a maximum of 0.2 ug/l. As discussed above, detection

levels for dissolved cadmium vary with the individual subcontracted labs performing the analysis, but are normally in the range of 0.1 ug/l to 0.5 ug/l. Attached is the hydrograph from GS01 (Attachment 4) which includes May 26, 1998, the date CDPHE's dissolved cadmium sample was collected. Also included is precipitation data from GS01 for the month of May 1998 (Attachment 5).

To date, there has not been sufficient precipitation to provide a runoff sample from either GS01 or GS03 for dissolved cadmium. Kaiser-Hill and its subcontractor, RMRS, will continue to monitor any precipitation conditions that occur and will notify CDPHE staff when sufficient flow is measured to allow sampling at GS01 and/or GS03.

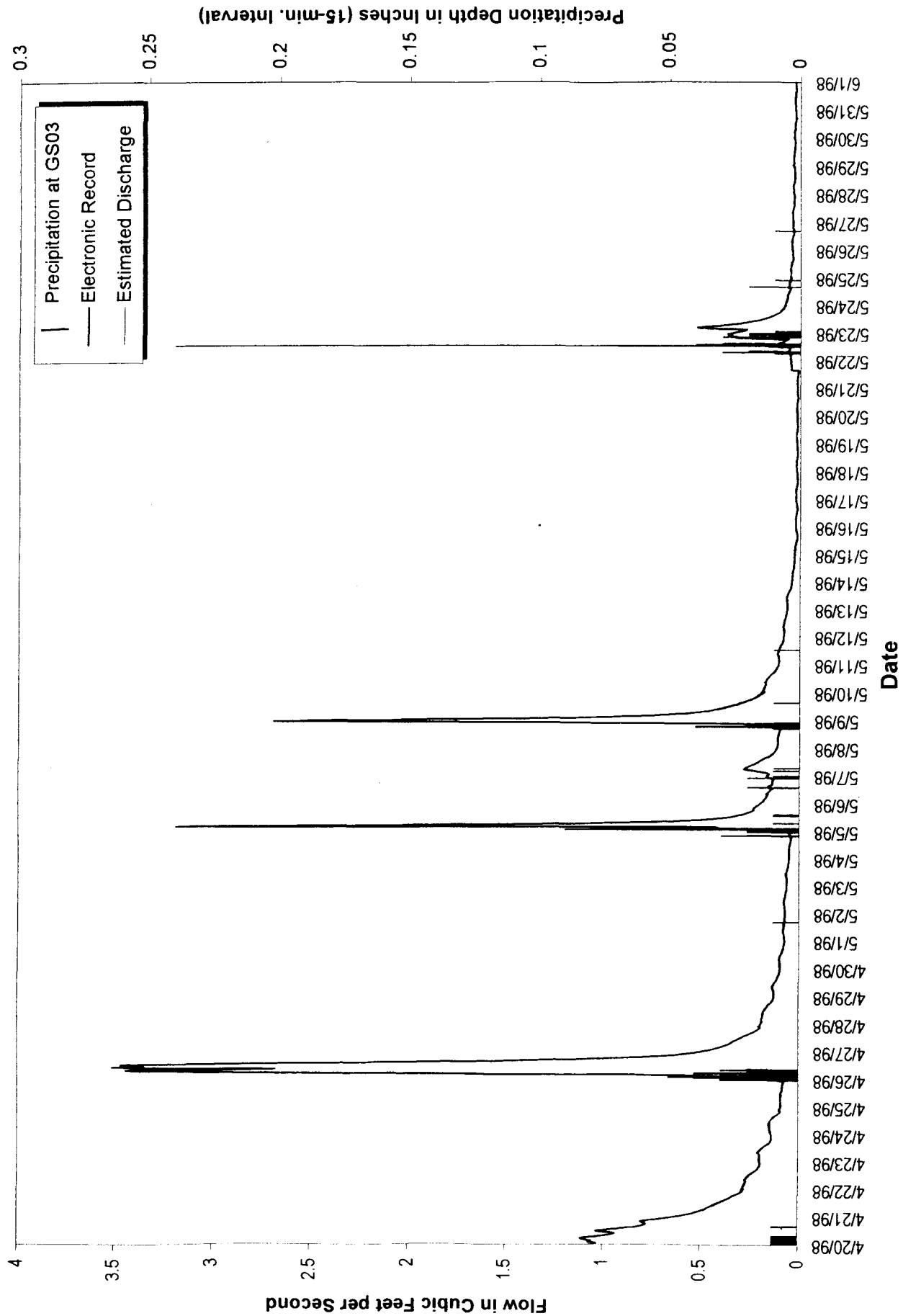
If you have any additional questions, please contact me at 303-966-4298.

Bob April, Group Lead
Regulatory Liaison

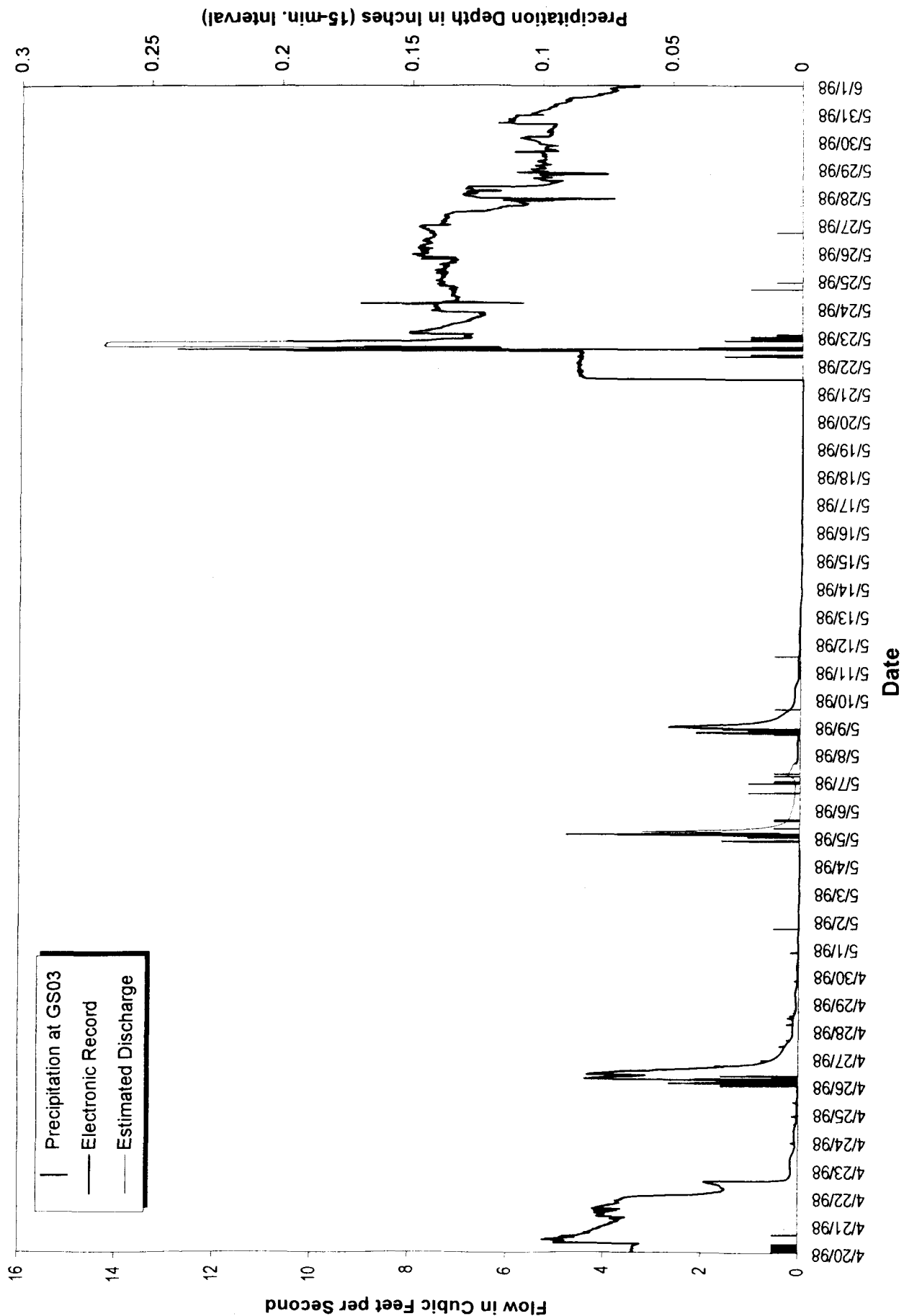
Attachments: as stated

Cc: Rich Horstmann, CDPHE
Tim Rehder, EPA
Dave Shelton, K-H
Joe Legare, DOE
Regina Sarter, DOE

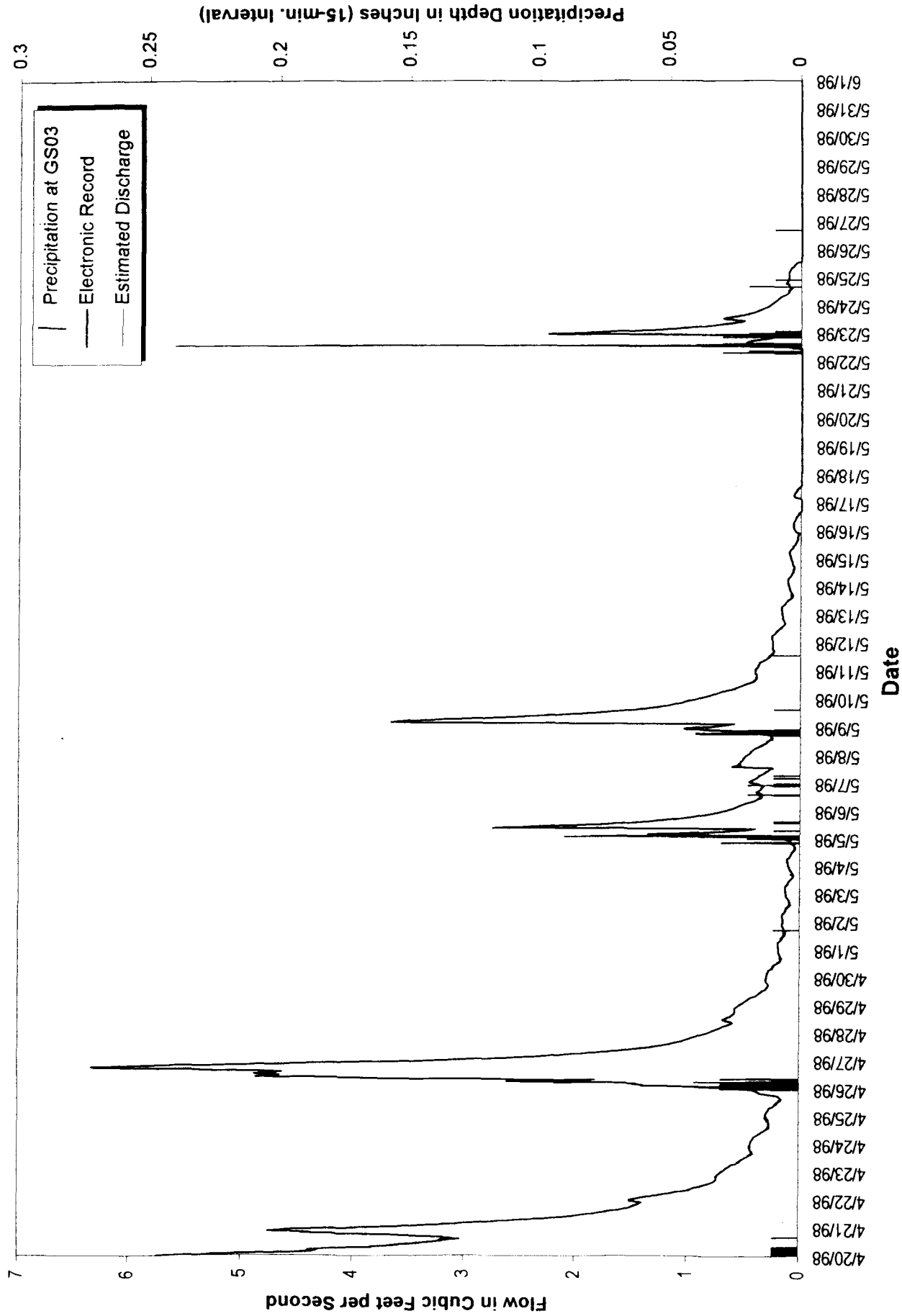
Hydrograph for Gaging Station GS33



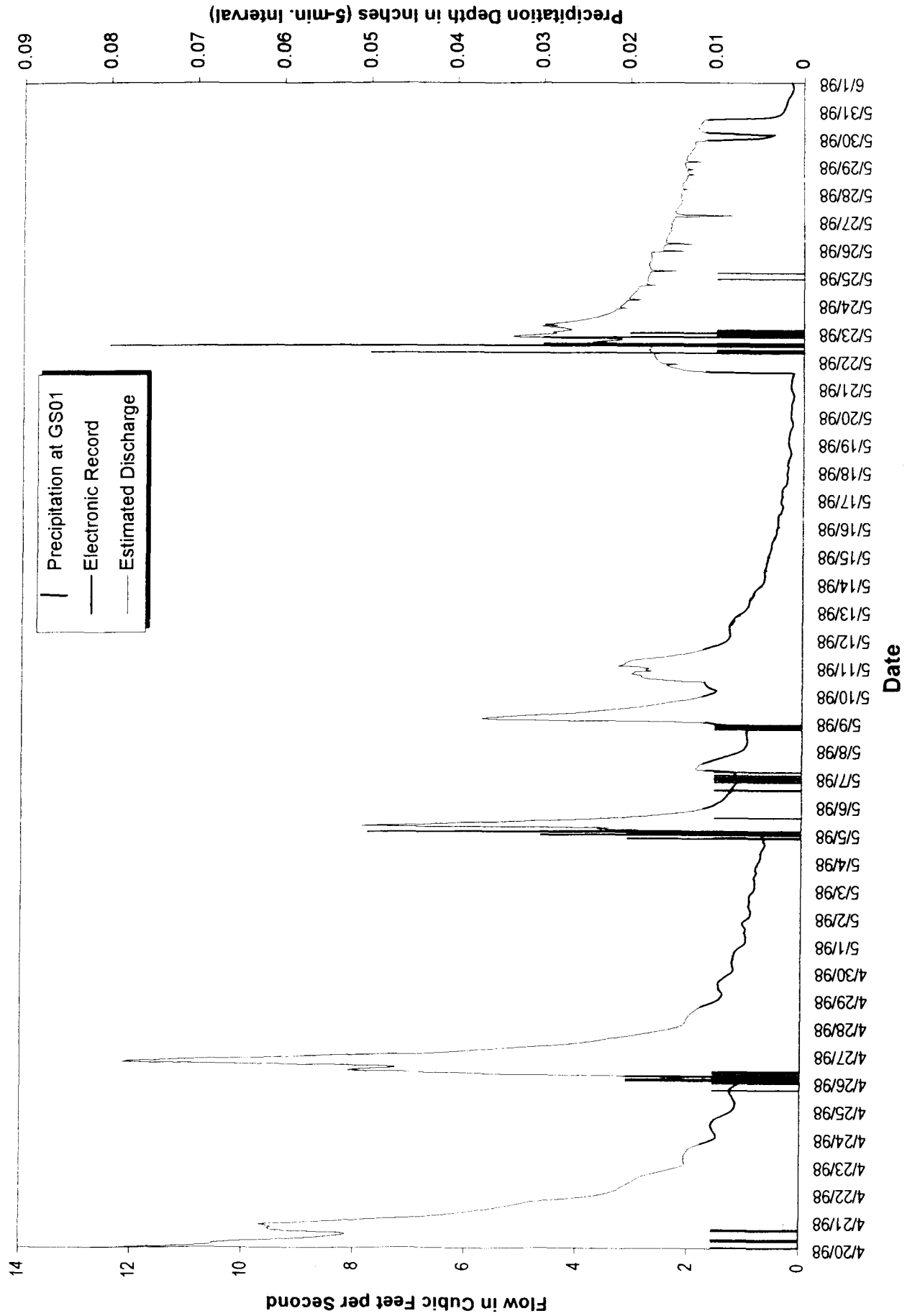
Hydrograph for Gaging Station GS34



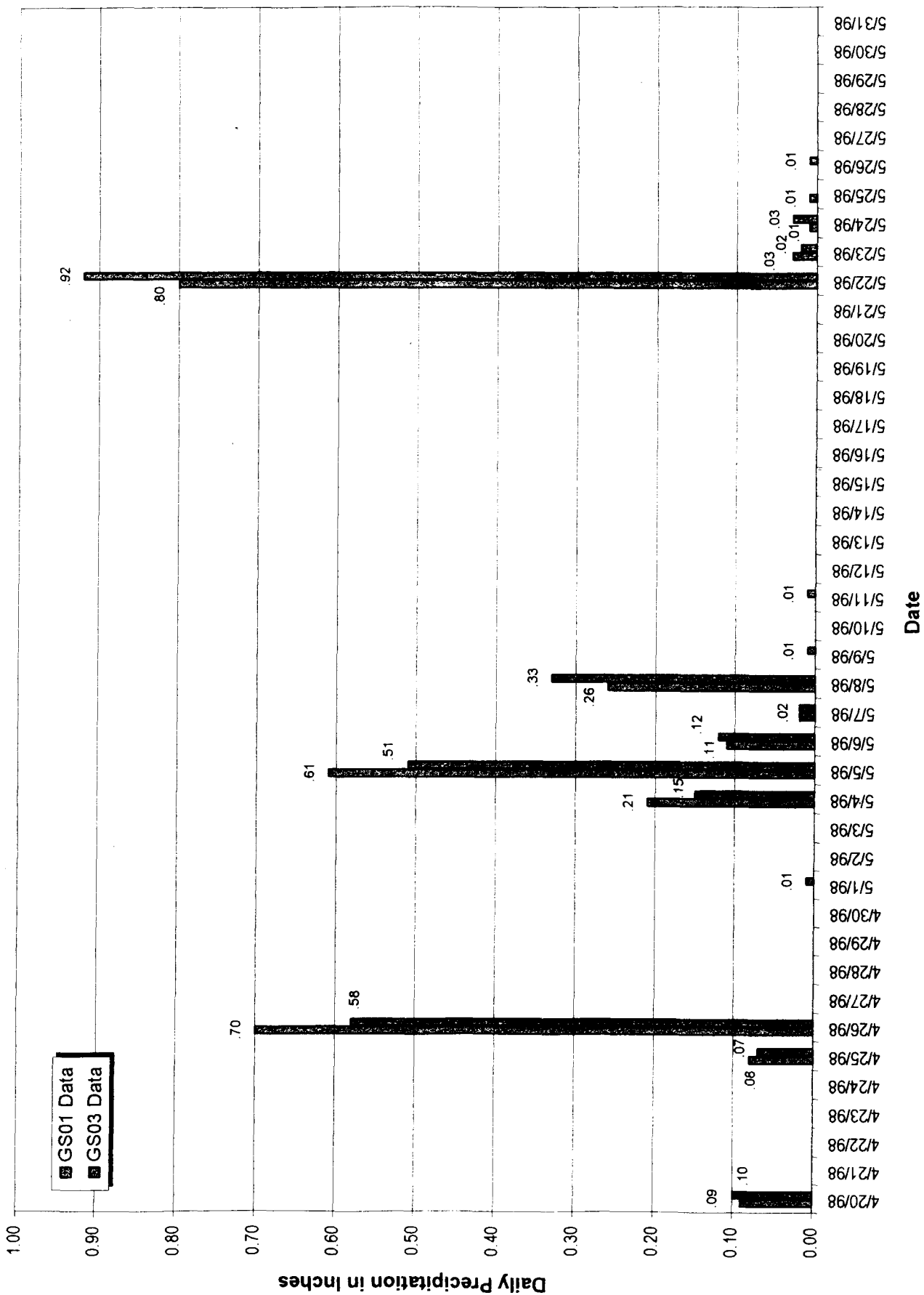
Hydrograph for Gaging Station GS35



Hydrograph for Gaging Station GS01



Daily Precipitation Totals at GS01 and GS03



Bob April
Group Lead
Regulatory Liaison
DOE, RFFO

DRAFT

TRANSMITTAL OF DISSOLVED CADMIUM DATA

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Robert C. Nininger
Deputy Manager, Environmental Management & Compliance
Kaiser-Hill, L.L.C.

Attachments:
As Stated

cc:

J. Hill, K-H
G. H. Setlock, K-H
K. M. Motyl, RMRS
L. A. Dunstan, RMRS

09/17/98

9:54 AM

9/9